

Alejandro Mira

List of Publications by Year in descending order

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120
papers

10,856
citations

31976

53
h-index

33894

99
g-index

125
all docs

125
docs citations

125
times ranked

13696
citing authors

#	ARTICLE	IF	CITATIONS
1	The human milk microbiome changes over lactation and is shaped by maternal weight and mode of delivery. <i>American Journal of Clinical Nutrition</i> , 2012, 96, 544-551.	4.7	696
2	Deletional bias and the evolution of bacterial genomes. <i>Trends in Genetics</i> , 2001, 17, 589-596.	6.7	687
3	Explaining microbial population genomics through phage predation. <i>Nature Reviews Microbiology</i> , 2009, 7, 828-836.	28.6	596
4	The oral metagenome in health and disease. <i>ISME Journal</i> , 2012, 6, 46-56.	9.8	420
5	Viral and microbial community dynamics in four aquatic environments. <i>ISME Journal</i> , 2010, 4, 739-751.	9.8	387
6	Solving the etiology of dental caries. <i>Trends in Microbiology</i> , 2015, 23, 76-82.	7.7	359
7	Role of microbial biofilms in the maintenance of oral health and in the development of dental caries and periodontal diseases. Consensus report of group 1 of the Joint EFP/ORCA workshop on the boundaries between caries and periodontal disease. <i>Journal of Clinical Periodontology</i> , 2017, 44, S5-S11.	4.9	273
8	Resilience of the Oral Microbiota in Health: Mechanisms That Prevent Dysbiosis. <i>Journal of Dental Research</i> , 2018, 97, 371-380.	5.2	259
9	Microbial Geography of the Oral Cavity. <i>Journal of Dental Research</i> , 2013, 92, 616-621.	5.2	225
10	Microbial mucosal colonic shifts associated with the development of colorectal cancer reveal the presence of different bacterial and archaeal biomarkers. <i>Journal of Gastroenterology</i> , 2015, 50, 167-179.	5.1	224
11	Relationship between Milk Microbiota, Bacterial Load, Macronutrients, and Human Cells during Lactation. <i>Frontiers in Microbiology</i> , 2016, 7, 492.	3.5	217
12	Estimating Population Size and Transmission Bottlenecks in Maternally Transmitted Endosymbiotic Bacteria. <i>Microbial Ecology</i> , 2002, 44, 137-143.	2.8	205
13	Dental Caries from a Molecular Microbiological Perspective. <i>Caries Research</i> , 2013, 47, 89-102.	2.0	196
14	Comparative genomics of two ecotypes of the marine planktonic copiotroph <i>Alteromonas macleodii</i> suggests alternative lifestyles associated with different kinds of particulate organic matter. <i>ISME Journal</i> , 2008, 2, 1194-1212.	9.8	185
15	Microbiome Diversity in the Bronchial Tracts of Patients with Chronic Obstructive Pulmonary Disease. <i>Journal of Clinical Microbiology</i> , 2012, 50, 3562-3568.	3.9	181
16	Oral microbiome development during childhood: an ecological succession influenced by postnatal factors and associated with tooth decay. <i>ISME Journal</i> , 2018, 12, 2292-2306.	9.8	180
17	Subgingival microbiota in health compared to periodontitis and the influence of smoking. <i>Frontiers in Microbiology</i> , 2015, 6, 119.	3.5	178
18	Role of microbial communities in the pathogenesis of periodontal diseases and caries. <i>Journal of Clinical Periodontology</i> , 2017, 44, S23-S38.	4.9	176

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19	The bacterial pan-genome: a new paradigm in microbiology. <i>International Microbiology</i> , 2010, 13, 45-57.	2.4	168
20	Microbiological Survey of the Human Gastric Ecosystem Using Culturing and Pyrosequencing Methods. <i>Microbial Ecology</i> , 2013, 65, 763-772.	2.8	166
21	Optical encryption and QR codes: Secure and noise-free information retrieval. <i>Optics Express</i> , 2013, 21, 5373.	3.4	166
22	Microbiota diversity and gene expression dynamics in human oral biofilms. <i>BMC Genomics</i> , 2014, 15, 311.	2.8	142
23	Isolation of Human Intestinal Bacteria Capable of Producing the Bioactive Metabolite Isourolithin A from Ellagic Acid. <i>Frontiers in Microbiology</i> , 2017, 8, 1521.	3.5	141
24	Mitochondria and germ-cell death. <i>Nature</i> , 1999, 400, 125-126.	27.8	140
25	Health-Associated Niche Inhabitants as Oral Probiotics: The Case of <i>Streptococcus dentisani</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 379.	3.5	140
26	The Neolithic revolution of bacterial genomes. <i>Trends in Microbiology</i> , 2006, 14, 200-206.	7.7	135
27	Impact of mode of delivery on the milk microbiota composition of healthy women. <i>Journal of Developmental Origins of Health and Disease</i> , 2016, 7, 54-60.	1.4	132
28	Amplification by PCR Artificially Reduces the Proportion of the Rare Biosphere in Microbial Communities. <i>PLoS ONE</i> , 2012, 7, e29973.	2.5	131
29	Aberrant IgA responses to the gut microbiota during infancy precede asthma and allergy development. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1017-1025.e14.	2.9	129
30	Metatranscriptomics reveals overall active bacterial composition in caries lesions. <i>Journal of Oral Microbiology</i> , 2014, 6, 25443.	2.7	125
31	Pyrosequencing survey of intestinal microbiota diversity in cultured sea bass (<i>Dicentrarchus</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 119	2.7	119
32	A Tissue-Dependent Hypothesis of Dental Caries. <i>Caries Research</i> , 2013, 47, 591-600.	2.0	115
33	Metagenome of the Mediterranean deep chlorophyll maximum studied by direct and fosmid library 454 pyrosequencing. <i>ISME Journal</i> , 2010, 4, 1154-1166.	9.8	109
34	Microbial genome evolution: sources of variability. <i>Current Opinion in Microbiology</i> , 2002, 5, 506-512.	5.1	107
35	Trade-offs in host use by <i>Manduca sexta</i> : plant characters vs natural enemies. <i>Oikos</i> , 2002, 97, 387-397.	2.7	88
36	Oral microbiota maturation during the first 7 years of life in relation to allergy development. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 2000-2011.	5.7	82

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37	Age-Related Differences in the Gastrointestinal Microbiota of Chinstrap Penguins (<i>Pygoscelis</i>) Tj ETQq1 1 0.784314.rgBT /Overlock 10 T	2.5	79
38	Reconstructing Viral Genomes from the Environment Using Fosmid Clones: The Case of Haloviruses. PLoS ONE, 2012, 7, e33802.	2.5	78
39	Intragenomic 16S rDNA Divergence in <i>Haloarcula marismortui</i> Is an Adaptation to Different Temperatures. Journal of Molecular Evolution, 2007, 65, 687-696.	1.8	76
40	Adapting to environmental changes using specialized paralogs. Trends in Genetics, 2008, 24, 154-158.	6.7	76
41	Mycobiome Profiles in Breast Milk from Healthy Women Depend on Mode of Delivery, Geographic Location, and Interaction with Bacteria. Applied and Environmental Microbiology, 2019, 85, .	3.1	76
42	Nitrate as a potential prebiotic for the oral microbiome. Scientific Reports, 2020, 10, 12895.	3.3	73
43	Multiple Approaches Detect the Presence of Fungi in Human Breastmilk Samples from Healthy Mothers. Scientific Reports, 2017, 7, 13016.	3.3	72
44	Characterization of the Gastric Microbiota in a Pediatric Population According to <i>Helicobacter pylori</i> Status. Pediatric Infectious Disease Journal, 2017, 36, 173-178.	2.0	71
45	Identifying a healthy oral microbiome through metagenomics. Clinical Microbiology and Infection, 2012, 18, 54-57.	6.0	70
46	Relationship between periodontitis-associated subgingival microbiota and clinical inflammation by 16S pyrosequencing. Journal of Clinical Periodontology, 2015, 42, 1074-1082.	4.9	68
47	Gut Microbiota and Mucosal Immunity in the Neonate. Medical Sciences (Basel, Switzerland), 2018, 6, 56.	2.9	67
48	The human oral metaproteome reveals potential biomarkers for caries disease. Proteomics, 2015, 15, 3497-3507.	2.2	66
49	Metagenomic islands of hyperhalophiles: the case of <i>Salinibacter ruber</i> . BMC Genomics, 2009, 10, 570.	2.8	64
50	<i>Streptococcus dentisani</i> sp. nov., a novel member of the mitis group. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 60-65.	1.7	64
51	Oral Microbiome Studies: Potential Diagnostic and Therapeutic Implications. Advances in Dental Research, 2018, 29, 71-77.	3.6	64
52	Isolation and Characterization of Nitrate-Reducing Bacteria as Potential Probiotics for Oral and Systemic Health. Frontiers in Microbiology, 2020, 11, 555465.	3.5	60
53	Stimulated and unstimulated saliva samples have significantly different bacterial profiles. PLoS ONE, 2018, 13, e0198021.	2.5	58
54	Detection of Transient Bacteraemia following Dental Extractions by 16S rDNA Pyrosequencing: A Pilot Study. PLoS ONE, 2013, 8, e57782.	2.5	57

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55	Effect of antibiotics on biofilm inhibition and induction measured by real-time cell analysis. <i>Journal of Applied Microbiology</i> , 2017, 122, 640-650.	3.1	57
56	Gene Location and Bacterial Sequence Divergence. <i>Molecular Biology and Evolution</i> , 2002, 19, 1350-1358.	8.9	53
57	Sputum microbiota in moderate versus severe patients with COPD. <i>European Respiratory Journal</i> , 2014, 43, 1787-1790.	6.7	52
58	Microbiota of human precolostrum and its potential role as a source of bacteria to the infant mouth. <i>Scientific Reports</i> , 2019, 9, 8435.	3.3	51
59	Genome Rearrangements, Deletions, and Amplifications in the Natural Population of <i>Bartonella henselae</i> . <i>Journal of Bacteriology</i> , 2006, 188, 7426-7439.	2.2	47
60	Second Era of OMICS in Caries Research: Moving Past the Phase of Disillusionment. <i>Journal of Dental Research</i> , 2017, 96, 733-740.	5.2	46
61	Exuviae eating: a nitrogen meal?. <i>Journal of Insect Physiology</i> , 2000, 46, 605-610.	2.0	45
62	Relationship of children's salivary microbiota with their caries status: a pyrosequencing study. <i>Clinical Oral Investigations</i> , 2014, 18, 2087-2094.	3.0	43
63	Inhibition of Oral Pathogens Adhesion to Human Gingival Fibroblasts by Wine Polyphenols Alone and in Combination with an Oral Probiotic. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 2071-2082.	5.2	43
64	Oral antiseptics against coronavirus: in-vitro and clinical evidence. <i>Journal of Hospital Infection</i> , 2021, 113, 30-43.	2.9	42
65	Active and secreted IgA-coated bacterial fractions from the human gut reveal an under-represented microbiota core. <i>Scientific Reports</i> , 2013, 3, 3515.	3.3	41
66	Four chromosome replication origins in the archaeon <i>Pyrobaculum calidifontis</i> . <i>Molecular Microbiology</i> , 2012, 85, 986-995.	2.5	39
67	Oral Biofilm Architecture at the Microbial Scale. <i>Trends in Microbiology</i> , 2016, 24, 246-248.	7.7	38
68	In vitro beneficial effects of <i>Streptococcus dentisani</i> as potential oral probiotic for periodontal diseases. <i>Journal of Periodontology</i> , 2019, 90, 1346-1355.	3.4	38
69	The Importance of Nitrate Reduction for Oral Health. <i>Journal of Dental Research</i> , 2022, 101, 887-897.	5.2	38
70	Mitochondria and the death of oocytes. <i>Nature</i> , 2000, 403, 501-501.	27.8	37
71	Allergy development is associated with consumption of breastmilk with a reduced microbial richness in the first month of life. <i>Pediatric Allergy and Immunology</i> , 2020, 31, 250-257.	2.6	37
72	Inhibition of <i>Streptococcus mutans</i> biofilm formation by extracts of <i>Tenacibaculum</i> sp. 20J, a bacterium with wide-spectrum quorum quenching activity. <i>Journal of Oral Microbiology</i> , 2018, 10, 1429788.	2.7	36

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73	Clinical evaluation of antiseptic mouth rinses to reduce salivary load of SARS-CoV-2. Scientific Reports, 2021, 11, 24392.	3.3	36
74	A pilot study to assess oral colonization and pH buffering by the probiotic <i>Streptococcus dentisani</i> under different dosing regimes. Odontology / the Society of the Nippon Dental University, 2020, 108, 180-187.	1.9	34
75	Hybrid adaptive-optics visual simulator. Optics Letters, 2010, 35, 196.	3.3	33
76	Nasopharyngeal Microbiota in Children With Invasive Pneumococcal Disease: Identification of Bacteria With Potential Disease-Promoting and Protective Effects. Frontiers in Microbiology, 2019, 10, 11.	3.5	33
77	Characterization of the Genome Composition of <i>Bartonella koehlerae</i> by Microarray Comparative Genomic Hybridization Profiling. Journal of Bacteriology, 2005, 187, 6155-6165.	2.2	32
78	Development of an <i>in vitro</i> system to study oral biofilms in real time through impedance technology: validation and potential applications. Journal of Oral Microbiology, 2019, 11, 1609838.	2.7	32
79	Mechanical biofilm disruption causes microbial and immunological shifts in periodontitis patients. Scientific Reports, 2021, 11, 9796.	3.3	30
80	Antibiofilm activity of flavonoids on staphylococcal biofilms through targeting BAP amyloids. Scientific Reports, 2020, 10, 18968.	3.3	29
81	The Silencing of Pseudogenes. Molecular Biology and Evolution, 2005, 22, 2135-2138.	8.9	28
82	Revealing microbial recognition by specific antibodies. BMC Microbiology, 2015, 15, 132.	3.3	28
83	Topic Application of the Probiotic <i>Streptococcus dentisani</i> Improves Clinical and Microbiological Parameters Associated With Oral Health. Frontiers in Cellular and Infection Microbiology, 2020, 10, 465.	3.9	28
84	Effect of Dalbavancin on Staphylococcal Biofilms When Administered Alone or in Combination With Biofilm-Detaching Compounds. Frontiers in Microbiology, 2020, 11, 553.	3.5	27
85	Bacterial Composition and Metabolomics of Dental Plaque From Adolescents. Frontiers in Cellular and Infection Microbiology, 2021, 11, 716493.	3.9	26
86	Why is Meiosis Arrested?. Journal of Theoretical Biology, 1998, 194, 275-287.	1.7	25
87	Biomonitoring detoxification efficiency of an algal-bacterial microcosm system for treatment of coking wastewater: Harmonization between <i>Chlorella vulgaris</i> microalgae and wastewater microbiome. Science of the Total Environment, 2019, 677, 120-130.	8.0	24
88	Polymicrobial Aggregates in Human Saliva Build the Oral Biofilm. MBio, 2022, 13, e0013122.	4.1	23
89	Antimicrobial efficacy of the supernatant of <i>Streptococcus dentisani</i> against microorganisms implicated in root canal infections. Journal of Oral Science, 2019, 61, 184-194.	1.7	22
90	Real-time monitoring of <i>Pseudomonas aeruginosa</i> biofilm growth dynamics and persister cells' eradication. Emerging Microbes and Infections, 2021, 10, 2062-2075.	6.5	21

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91	Gut Bacterial Diversity of the House Sparrow (<i>Passer domesticus</i>) Inferred by 16S rRNA Sequence Analysis. <i>Metagenomics (Cairo, Egypt)</i> , 2014, 3, 1-11.	1.2	20
92	Combined analysis of the salivary microbiome and host defence peptides predicts dental disease. <i>Scientific Reports</i> , 2018, 8, 1484.	3.3	19
93	High-throughput DNA sequencing of microbiota at interproximal sites. <i>Journal of Oral Microbiology</i> , 2020, 12, 1687397.	2.7	19
94	Analysis of microbiota in stable patients with chronic obstructive pulmonary disease. <i>Apmis</i> , 2015, 123, 427-432.	2.0	18
95	Variations in Vaginal, Penile, and Oral Microbiota After Sexual Intercourse: A Case Report. <i>Frontiers in Medicine</i> , 2019, 6, 178.	2.6	18
96	A Single Dose of Nitrate Increases Resilience Against Acidification Derived From Sugar Fermentation by the Oral Microbiome. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 692883.	3.9	18
97	Characterization of the microbiota associated to <i>Pecten maximus</i> gonads using 454-pyrosequencing. <i>International Microbiology</i> , 2016, 19, 93-99.	2.4	18
98	Effect of oral antiseptics in reducing SARS-CoV-2 infectivity: evidence from a randomized double-blind clinical trial. <i>Emerging Microbes and Infections</i> , 2022, 11, 1833-1842.	6.5	18
99	Human milk microbiota in sub-acute lactational mastitis induces inflammation and undergoes changes in composition, diversity and load. <i>Scientific Reports</i> , 2020, 10, 18521.	3.3	17
100	Mining Virulence Genes Using Metagenomics. <i>PLoS ONE</i> , 2011, 6, e24975.	2.5	16
101	Editorial: The oral microbiome in an ecological perspective. <i>Frontiers in Cellular and Infection Microbiology</i> , 2015, 5, 39.	3.9	14
102	Salivary Immune and Metabolic Marker Analysis (SIMMA): A Diagnostic Test to Predict Caries Risk. <i>Diagnostics</i> , 2017, 7, 38.	2.6	13
103	The Subgingival Plaque Microbiome, Systemic Antibodies against Bacteria and Citrullinated Proteins following Periodontal Therapy. <i>Pathogens</i> , 2021, 10, 193.	2.8	13
104	Sex-specific differences in nitrogen intake and investment by feral and laboratory-cultured cockroaches. <i>Journal of Insect Physiology</i> , 2000, 46, 677-684.	2.0	11
105	Sputum Microbiome Dynamics in Chronic Obstructive Pulmonary Disease Patients during an Exacerbation Event and Post-Stabilization. <i>Respiration</i> , 2019, 98, 447-454.	2.6	11
106	Evaluation of Clinical, Biochemical and Microbiological Markers Related to Dental Caries. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 6049.	2.6	10
107	Impact of COVID-19 Lockdown on the Nasopharyngeal Microbiota of Children and Adults Self-Confined at Home. <i>Viruses</i> , 2022, 14, 1521.	3.3	10
108	Differential nasopharyngeal microbiota composition in children according to respiratory health status. <i>Microbial Genomics</i> , 2021, 7, .	2.0	9

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109	Rapid Increase of Oral Bacteria in Nasopharyngeal Microbiota After Antibiotic Treatment in Children With Invasive Pneumococcal Disease. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 744727.	3.9	8
110	Ulcerative Colitis Seems to Imply Oral Microbiome Dysbiosis. <i>Current Issues in Molecular Biology</i> , 2022, 44, 1513-1527.	2.4	8
111	Equilateral hyperbolic moiré zone plates with variable focus obtained by rotations. <i>Optics Express</i> , 2005, 13, 918.	3.4	7
112	Shifts in Composition and Activity of Oral Biofilms After Fluoride Exposure. <i>Microbial Ecology</i> , 2020, 80, 729-738.	2.8	7
113	The Origin of Human Milk Bacteria. , 2017, , 349-364.		6
114	Microbiology of molar incisor hypomineralization lesions. A pilot study. <i>Journal of Oral Microbiology</i> , 2020, 12, 1766166.	2.7	6
115	<i>Streptococcus dentisani</i> is a common inhabitant of the oral microbiota worldwide and is found at higher levels in caries-free individuals. <i>International Microbiology</i> , 2021, 24, 619-629.	2.4	6
116	Presence of <i>Streptococcus dentisani</i> in the dental plaque of children from different Colombian cities. <i>Clinical and Experimental Dental Research</i> , 2019, 5, 184-190.	1.9	5
117	Evaluation of possible biomarkers for caries risk in children 6 to 12 years of age. <i>Journal of Oral Microbiology</i> , 2021, 13, 1956219.	2.7	5
118	<i>In situ</i> substrate-formed biofilms using IDODS mimic supragingival tooth-formed biofilms. <i>Journal of Oral Microbiology</i> , 2018, 10, 1495975.	2.7	4
119	Frequency of abnormal and stereotypic behaviors in urban police patrolling horses: A continuous 48-hour study. <i>Revista Colombiana De Ciencias Pecuarias</i> , 2018, 31, 17-25.	0.4	3
120	Reply to Z Weizman. <i>American Journal of Clinical Nutrition</i> , 2013, 97, 656-657.	4.7	1